

ATTORNEY DOCKET NO. 21085.0040U2
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)	
)	
DeLucas et al.)	Art Unit: Unassigned
)	
Application No. 10/617,292)	Examiner: Unassigned
)	
Filing Date: July 10, 2003)	Confirmation No. Unassigned
)	
For: METHOD FOR DISTINGUING)	
BETWEEN BIOMOLECULE AND NON-)	
BIOMOLECULE CRYSTALS)	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

NEEDLE & ROSENBERG, P.C.
Customer Number 23859

Sir:

Pursuant to the requirements of 37 C.F.R. § 1.56, submitted herewith on the accompanying Form PTO-1449 is a listing of documents known to Applicants and/or their attorneys. A copy of each of these documents is enclosed.

This Information Disclosure Statement is believed to be filed in a timely manner pursuant to 37 C.F.R. § 1.97(b)(1) and (3), in that this Information Disclosure Statement is being filed within three months of the filing date of the present patent application and an Office Action on the merits of the present patent application has not yet been mailed to Applicants.

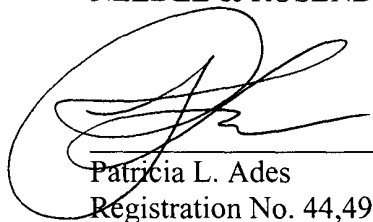
Consideration of the cited documents and making the same of record in the prosecution of the above-referenced application are respectfully requested.

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No fee is believed due; however, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.



Patricia L. Ades
Registration No. 44,496

NEEDLE & ROSENBERG, P.C.
Customer Number 23859
(678) 420-9300
(678) 420-9301 (fax)

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence, including any items indicated as attached or included, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.



Patricia L. Ades

Date

August 12, 2003



Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				Complete if Known			
LIST OF INFORMATION CITED BY APPLICANT (Use as many sheets as necessary)				Application Number	10/617,292		
				Filing Date	July 10, 2003		
				First Named Inventor	DeLucas et al.		
				Group Art Unit	Unassigned		
				Examiner Name	Unassigned		
U.S. PATENT DOCUMENTS							
Examiner's Initials	Cite No.	Document No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	A1	5,973,779	10/26/99	Ansari et al.	356	301	
FOREIGN PATENT DOCUMENTS							
Examiner's Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Date	Name	Translation Yes/No		
NON-PATENT DOCUMENTS							
Examiner's Initials	Cite No.	Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)					
	A2	Bellec et al., "In situ time-resolved FTIR spectroelectrochemistry: study of the reduction of TCNQ," <i>Eletrochem. Commun.</i> 3:483-488 (2001)					
	A3	Bordin et al., "Identification and quantification of major bovine milk proteins by liquid chromatography," <i>J Chromatography A</i> 928:63-76 (2001)					
	A4	Boussaad et al., "High-Resolution Multiwavelength Surface Plasmon Resonance Spectroscopy for Probing Conformational and Electronic Changes in Redox Proteins," <i>Anal. Chem.</i> 72:222-226 (2000)					
	A5	Brochure: "JASCO - Pioneering in modern protein science: UV/Vis, FTIR, Raman, CD," Unverified date					
	A6	Chappell et al., "Quantitative analysis of chromium(V) by EPR spectroscopy," <i>Talanta</i> 46:23-38 (1998)					
	A7	Clake and Kane, "Optical detection of membrane dipole potential: avoidance of fluidity and dye-induced effects," <i>Biochimica Biophysica Acta</i> 1323(2):223-239 (January 31, 1997)					
	A8	Codina et al., "Combined use of ESI-MS and UV diode-array detection for localization of disulfide bonds in proteins: application to an α -L-fucosidase of pea," <i>J Peptide Res.</i> 57:473-482 (2001)					
	A9	D'Alessio et al., "Absorption spectroscopy of toluene pyrolysis," <i>Optics and Lasers in Engineering</i> 37:495-508 (2002)					
	A10	Feher and Kam, "Diffraction Methods for Biological Macromolecules," eds Wyckoff and Hirs, <i>Methods in Enzymology</i> , eds in chief Colonic and Kapler, 1985, Academic Press, Orlando, 77-113					
	A11	Grube et al., "IR-spectroscopic studies of <i>Zymomonas mobilis</i> and levan precipitate," <i>Vibrat. Spectro.</i> 28:277-285 (2002)					
	A12	Hautala et al., "Measurement of aquatic humus content by spectroscopic analyses," <i>Wat. Res.</i> 34(1):246-254 (2000)					
	A13	Hayakawa et al., "Protein determination by high-performance gel-permeation chromatography: applications to human pancreatic juice, human bile and tissue homogenate," <i>J Chromatography B</i> 754:65-76 (2001)					



A14	Hayakawa et al., "Serum protein determination by high-performance gel-permeation chromatography," <i>J Chromatography B</i> 696:19-23 (1997)
A15	Heremans and Heremans, "Pressure Effects on the Raman Spectrum of Proteins: Stability of the Salt Bridge in Trysin and Elastase," <i>J Mol. Struct.</i> 214:305-314 (1989)
A16	Holler et al., "Synthesis and spectroscopic characterization of 2-(2'-hydroxyphenyl)benzazole isothiocyanates as new fluorescent probes for proteins," <i>J Photochem. Photobiol. A : Chem.</i> 149:217-225 (2002)
A17	Jancura et al., "Surface-enhanced resonance Raman spectroscopy of hypocrellin A: an effect of excitation wavelength and pH," <i>Spectrochimica Acta Part A</i> 54:1519-1526 (1998)
A18	Kudryavtsev et al., "Polarized Raman Spectroscopic Studies of Tetragonal Lysozyme Single Crystals," <i>Acta Cryst.</i> D54:1216-1229 (1998)
A19	Lis, "Luminescence spectroscopy of lanthanide(III) ions in solution," <i>J Alloys Comp.</i> 341:45-50 (2002)
A20	Mach et al., "Detection of Proteins and Phenol in DNA Samples with Second-Derivative Absorption Spectroscopy," <i>Anal. Biochem.</i> 200:20-26 (1992)
A21	Mino et al., "Hydrogen Bonding of Sulfur Ligands in Blue Copper and Iron-Sulfur Proteins: Detection by Resonance Raman Spectroscopy," <i>Biochem.</i> 26:8059-8065 (1987)
A22	Miteva et al., "Spectrophotometric titration of ionisable groups in proteins: a theoretical study," <i>Spectrochimica Acta Part A</i> 56:2033-2041 (2000)
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A24	Moffatt et al., "Approaches towards the quantitative analysis of peptides and proteins by reversed-phase high-performance liquid chromatography in the absence of a pure reference sample," <i>J Chromatography A</i> 891:235-242 (2000)
A25	Pandher et al., "Spectroscopy, persistent hole burning, and holographic applications of naphthophthalocyanine/haloanthracene systems," <i>J Lumin.</i> 98:207-212 (2002)
A26	Platoff, Jr. et al., "Serial Capillary Gas Chromatography/Fourier Transform Infrared Spectrometry/Mass Spectrometry (GC/IR/MS): Qualitative and Quantitative Analysis of Amphetamine, Methamphetamine, and Related Analogues in Human Urine," <i>J Anal. Toxicol.</i> 16:389-397 (November/December 1992)
A27	Rückert et al., "Characterization of protein mixtures by ion-exchange chromatography coupled on-line to nuclear magnetic resonance spectroscopy," <i>J Chromatography A</i> 840:131-135 (1999)
A28	Sane et al., "A Holistic Approach to Protein Secondary Structure Characterization Using Amide I Band Raman Spectroscopy," <i>Anal. Biochem.</i> 269:255-272 (1999)
A29	Šašić and Ozaki, "Short-Wave Near-Infrared Spectroscopy of Biological Fluids. 1. Quantitative Analysis of Fat, Protein, and Lactose in Raw Milk by Partial Least-Squares Regression and Band Assignment," <i>Anal. Chem.</i> 73:64-71 (2001)



A30	Thomas, Jr. , "Raman Spectroscopy of Protein and Nucleic Acid Assemblies," <i>Ann. Rev. Bioophys. Biomol. Struct.</i> 28:1-27 (1999)
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A32	van Iersel et al., "Determination of Absorption Coefficients of Purified Proteins by Conventional Ultraviolet Spectrophotometry and Chromatography Combined with Multiwavelength Detection," <i>Anal. Biochem.</i> 151:196-204 (1985)
A33	Wagner et al., "Protein mapping by two-dimensional high performance liquid chromatography," <i>J Chromatography A</i> 893:293-305 (2000)
A34	Website: "High-Resolution UV Spectroscopy," http://physics.nist.gov/Divisions/Div844/facilities/uvs/uvs.htm Unverified print date of: 7/01/2002
A35	Wróbel and Boguta, "Study of the influence of substituents on spectroscopic and photoelectric properties of zinc phthalocyanines," <i>J Photchem. Photobiol. A: Chem</i> 6045:1-10 (2002)
Examiner Signature: _____ Date Considered: _____	
EXAMINER: Initial If reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	